

Abstract

The clamping tool comprises a first element (18) and a second element (20) capable of relative displacement as a result of the action of a drive device comprising a screw (10) having a given screw thread such that it can be rotationally driven about an axis (XX) in one direction or in a direction opposite thereto as a result of the action of a motor (M); a nut (12) cooperating with the screw (10) and which can be rotationally driven in the direction of the axis (XX) of the screw, said screw being translationally coupled to the first element (18); first guiding means (34L) defining linear guidance parallel to the axis (XX) of the screw in order to rotationally block the nut (12) in a first phase of displacement of the nut; and second guiding means (34H) defining helicoidal guidance extending according to the axis (XX) of the screw (12) and which has an inverted thread in relation to the thread of the screw in order to enable the nut (12) to rotate in the same direction of rotation as the screw (10) in a second nut displacement phase; in addition to a compensation system (46) arranged between the first element (18) and a mobile support (14) coupled to the nut (12) in order to reinitialize the position of the first element (18) in relation to the second element (20), such that the first and second displacement phases caused by the first and second guiding means (34L, 34H) remain synchronous with the phases which are required for optimization of the displacement of the first element. The invention can be used in particular with soldering pliers.